

**METHOD FOR PRODUCING A NON-POROUS MEMBRANE**

**ABSTRACT OF THE DISCLOSURE**

A non-porous membrane suitable for use in removing dissolved oxygen in a fuel deoxygenator device in an aircraft is produced by solvent casting. A first membrane layer is deposited on a substrate. A second membrane layer is deposited on top of the first membrane layer. Subsequent membrane layers may be deposited on top of the second membrane layer as desired. The resulting non-porous membrane allows little or no leaking of fuel across the membrane.

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